Dig it -Brightwater tunneling to begin!

Over the next four years, 13 miles of tunnels, each about 16 feet in diameter, will be excavated from three access points to complete the Brightwater system and link the treatment plant with the marine outfall.

This summer will mark an exciting milestone for the **Brightwater Project** as tunneling starts from the North Creek site in Bothell.

Brightwater construction sites update

Marine Outfall

King County expects to award

a Design/Build contract for the

Marine Outfall in July, 2007.

Work will begin in 2008.

LEGEND

Outfall Pipe

Connection

Direction of Flow

5 Portal Number

Treatment Plant

Portal Site

Service Area Conveyance lines not to scale

.... Local Sewer

Influent

Effluent

King County is building a new wastewater treatment system called Brightwater to serve the growing needs of north King County and south Snohomish County.

Brightwater construction will take place at the treatment plant site, and four areas called portals to build the conveyance tunnels in Bothell, Shoreline, Kenmore, and at Point Wells to carry wastewater to and from the plant.

Once completed, the construction areas will be restored and improved with the mitigation investments proposed at each location.

Point Wells Portal

The conveyance pipelines will be built almost entirely underground in tunnels 40 to 400 feet below the surface. Portals are the access shafts where workers, machines, soil and equipment will enter and exit the tunnels during construction. Tunnel boring machines (TBMs) will be used to build these tunnels underground.

For more information, please visit: http://dnr.metrokc.gov/WTD/brightwater/ construction/index.htm



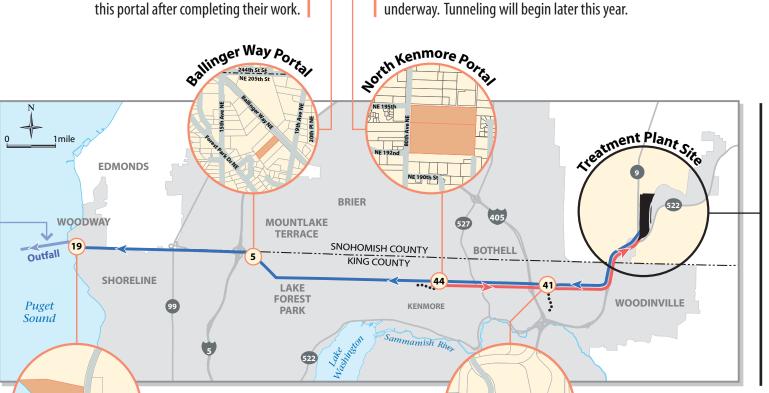
TBMs for the Brightwater project are manufactured in Canada and Europe. Shown here is a Lovat TBM from Toronto, Canada, that was used to build wastewater storage tunnels recently under Seattle's Queen Anne and Beacon hills



Sections of the TBMs are lowered into the shafts for assembly testing and launching.

Ballinger Way Portal North Kenmore Portal

Construction is scheduled to begin here in July A screen wall has been built around the portal 2007. This is a "receiving" portal: TBMs will not be for safety and noise. This summer, work will be launched from here. Instead, two TBMs tunneling completed along NE 192nd Street, where a sewer from other sites will be pulled from the ground at line is being installed. Portal shaft construction is underway. Tunneling will begin later this year.



Treatment Plant Site

Pre-construction activities on the treatment plant site started in mid-2006 with grading and site preparation, as well as construction of the effluent drop structure and yard piping. In the north habitat restoration area, streams and hills were created. In the summer of 2007, people will see site excavation for major structures and the beginning of construction of pipes, tanks and building foundations. For the north habitat area, more native plants will be planted and a field house will be built.

Deep shaft construction to prepare for Brightwater tunneling has been underway since May 2006. The shafts, ranging in depths from 20 to 200 feet, provide launching and receiving sites for tunneling boring machines (TBMs), workers and soil removal.

North Creek Portal and Pump Station

orth Creek Porta

and Pump Station

Construction of two large diameter, 80-ft deep portal shafts is now underway. Two large cranes are in place to excavate the shafts and construct the shaft walls. The first shaft will be used to launch and receive the TBMs. A second shaft will become the below-ground portion of a pump station. Tunneling will begin in 2007 and construction of the new pump station will begin in 2008.

This summer, we will announce a date and time for our start-up celebration at the North Creek Portal to mark the start of Brightwater tunneling. Watch our Web site at http://dnr.metrokc.gov/wtd/brightwater for details.

Point Wells Portal

King County has awarded

the West Tunnel contract.

Work at the site will begin

as early as late spring 2007.